

**Claudin-2 Polyclonal Antibody**  
**Catalog # AP69130****Specification**

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**Claudin-2 Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P57739</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal

**Claudin-2 Polyclonal Antibody - Additional Information****Gene ID** 9075**Other Names**

CLDN2; PSEC0059; SP82; Claudin-2; SP82

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.

IHC-P~~N/A

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**Claudin-2 Polyclonal Antibody - Protein Information****Name** CLDN2 {ECO:0000303|PubMed:31320686, ECO:0000312|HGNC:HGNC:2041}**Function**

Forms paracellular channels: polymerizes in tight junction strands with cation- and water-selective channels through the strands, conveying epithelial permeability in a process known as paracellular tight junction permeability (PubMed:<a href="http://www.uniprot.org/citations/20460438" target="\_blank">20460438</a>, PubMed:<a href="http://www.uniprot.org/citations/36008380" target="\_blank">36008380</a>). In intestinal epithelium, allows for sodium and water fluxes from the peritoneal side to the lumen of the intestine to regulate nutrient absorption and clear enteric pathogens as part of mucosal immune response (By similarity). In kidney, allows passive sodium and calcium reabsorption across proximal tubules from the lumen back to the bloodstream (By similarity). In the hepatobiliary tract, allows paracellular water and cation fluxes in the hepatic perivenous areas and biliary epithelium to generate bile flow and maintain osmotic gradients (By similarity).

**Cellular Location**

Cell junction, tight junction. Cell membrane {ECO:0000250|UniProtKB:O88552}; Multi-pass

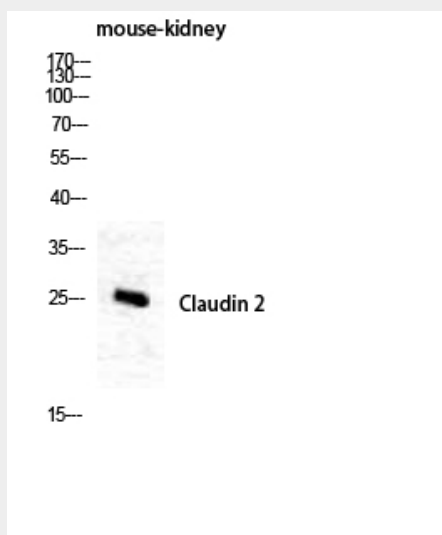
membrane protein

### **Claudin-2 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Claudin-2 Polyclonal Antibody - Images**



Western Blot analysis of mouse-kidney cells using Claudin-2 Polyclonal Antibody diluted at 1:1000

### **Claudin-2 Polyclonal Antibody - Background**

Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity.